

## Accepted Manuscript

Title: Delivery of doxorubicin-loaded PLGA nanoparticles into U87 human glioblastoma cells

Author: Julia Malinovskaya Pavel Melnikov Vladimir Baklaushev Anna Gabashvili Nadezhda Osipova Sergey Mantrov Yulia Ermolenko Olga Maksimenko Marina Gorshkova Vadim Balabanyan Jörg Kreuter Svetlana Gelperina



PII: S0378-5173(17)30223-5  
DOI: <http://dx.doi.org/doi:10.1016/j.ijpharm.2017.03.049>  
Reference: IJP 16521

To appear in: *International Journal of Pharmaceutics*

Received date: 25-12-2016  
Revised date: 20-3-2017  
Accepted date: 21-3-2017

Please cite this article as: Malinovskaya, J., Melnikov, P., Baklaushev, V., Gabashvili, A., Osipova, N., Mantrov, S., Ermolenko, Y., Maksimenko, O., Gorshkova, M., Balabanyan, V., Kreuter, J., Gelperina, S., Delivery of doxorubicin-loaded PLGA nanoparticles into U87 human glioblastoma cells, *International Journal of Pharmaceutics* (2017), <http://dx.doi.org/10.1016/j.ijpharm.2017.03.049>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## DELIVERY OF DOXORUBICIN-LOADED PLGA NANOPARTICLES INTO U87 HUMAN GLIOBLASTOMA CELLS

5 Julia Malinovskaya<sup>a</sup>, Pavel Melnikov<sup>b</sup>, Vladimir Baklaushev<sup>c</sup>, Anna Gabashvili<sup>b</sup>, Nadezhda Osipova<sup>a</sup>, Sergey Mantrov<sup>a</sup>, Yulia Ermolenko<sup>a</sup>, Olga Maksimenko<sup>a</sup>, Marina Gorshkova<sup>d</sup>, Vadim Balabanyan<sup>a</sup>, Jörg Kreuter<sup>a,e</sup>, Svetlana Gelperina<sup>a\*</sup>

<sup>a</sup> *Drugs Technology LLC, Rabochaya st. 2A, 141400 Khimki, Moscow Region, Russian Federation;*

10 <sup>b</sup> *Research and Education Center for Medical Nanobiotechnology, Pirogov Russian National Research Medical University, Ostrovityanova st, 117997 Moscow, Russian Federation;*

<sup>c</sup> *Federal Research and Clinical Center of Specialized Medical Care and Medical Technologies, Federal Biomedical Agency of the Russian Federation, Orekhoviy blvd 2, 115682 Moscow, Russian Federation;*

15 <sup>d</sup> *Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences, Leninsky pr 29, 19991 Moscow, Russian Federation*

<sup>e</sup> *Institute of Pharmaceutical Technology, Biocenter Niederursel, Goethe University, Max-von-Laue-Str. 9, 60438 Frankfurt/Main, Germany*

20 \* Author to whom correspondence should be addressed:

Svetlana Gelperina

Address: Drugs Technology LLC, Rabochaya st. 2A, 141400 Khimki, Moscow Region, Russian Federation

Tel: +7 916 0700393

25 E-mail: svetlana.gelperina@gmail.com

Download English Version:

<https://daneshyari.com/en/article/5550488>

Download Persian Version:

<https://daneshyari.com/article/5550488>

[Daneshyari.com](https://daneshyari.com)